## LISTING OF THE CLAIMS (including amendments, if any)

1. (previously presented) A method for redistributing data in a relational data base management system, comprising:

allocating a buffer associated with a transmitting processing module, the transmitting processing module having access to a program, the program capable of managing a redistribution of one or more rows associated with one or more database tables;

if the allocated buffer is larger than the one or more rows:

storing one or more rows of a database table in the allocated buffer;

communicating a message to one or more destination processing modules, the message comprising at least some of the one or more rows stored in the allocated buffer; otherwise:

executing a many-rows method to redistribute the one or more rows.

- 2. (original) The method of Claim 1, wherein the message comprises all of the one or more rows stored in the allocated buffer.
- 3. (original) The method of Claim 1, wherein the transmitting processing module comprises one of a plurality of processing modules associated with a relational database system.
- 4. (original) The method of Claim 1, wherein the message is communicated to each of a plurality of destination processing elements.
- 5. (original) The method of Claim 1, wherein the allocated buffer is capable of storing no more than ten (10) rows.

6. (original) The method of Claim 1, wherein the many-rows method comprises:

communicating from one or more transmitting processing modules a first signal to a plurality of processing modules within a relational database system, the first signal operable to initiate a row receiver task on each of the processing modules;

communicating from one or more of the processing modules a ready-to-receive signal to the one or more transmitting processing modules;

communicating from the one or more transmitting processing modules a second signal comprising the one or more rows associated with the database table;

after communication of the last row associated with the database table, communicating from the one or more transmitting processing modules an end-of-data signal to each of the plurality of processing modules.

- 7. (original) The method of Claim 1, further comprising invoking the program on a single transmitting processing module.
- 8. (original) The method of Claim 1, further comprising receiving at each of a plurality of destination processing elements a substantially similar set of the one or more rows stored in the allocated buffer.
- 9. (original) The method of Claim 1, further comprising determining a number of rows to store in the allocated buffer.
- 10. (original) A method for redistributing data in a relational data base management system, comprising:

invoking a program on one or more of a plurality of transmitting modules, the program capable of managing a redistribution of one or more rows associated with one or more database tables;

if the program was invoked on a single transmitting module;

executing a few-rows redistribution method to redistribute the one or more rows; otherwise;

executing a many-rows redistribution method to redistribute the one or more rows.

11. (previously presented) The method of Claim 10, wherein the few-rows row redistribution method comprises:

allocating a buffer associated with a transmitting processing module, the transmitting processing module having access to the program, the program associated with a single transmitting module;

if the allocated buffer is larger than the one or more rows:

storing one or more rows of a database table in the allocated buffer;

communicating a message to one or more destination modules, the message comprising at least some of the one or more rows stored in the allocated buffer; otherwise:

executing a many-rows method to redistribute the one or more rows.

- 12. (original) The method of Claim 11, wherein the message comprises all of the one or more rows stored in the allocated buffer.
- 13. (original) The method of Claim 11, wherein the transmitting module comprises one of a plurality of processing modules associated with a relational database system.
- 14. (original) The method of Claim 11, wherein the message is communicated to each of a plurality of destination modules.
- 15. (original) The method of Claim 11, wherein the few-rows row redistribution method further comprises determining a number of rows to store in the allocated buffer.
- 16. (original) The method of Claim 10, wherein the many-rows row redistribution method comprises:

communicating from one or more transmitting modules a first signal to a plurality of processing modules within a relational database system, the first signal operable to initiate a row receiver task on each of the processing modules;

communicating from one or more of the processing modules a ready-to-receive signal to the one or more transmitting modules;

communicating from the one or more transmitting modules a second signal comprising the one or more rows associated with the database table;

after communication of the last row associated with the database table, communicating from the one or more transmitting modules an end-of-data signal to each of the plurality of processing modules.

- 17. (original) The method of Claim 10, further comprising determining the number of transmitting modules on which the program was invoked.
- 18. (previously presented) A computer-readable medium containing computer-executable code for instructing a computer to:

allocate a buffer associated with a transmitting processing module, the transmitting processing module having access to a program, the program capable of managing a redistribution of one or more rows associated with one or more database tables;

if the allocated buffer is larger than the one or more rows:

store one or more rows associated with a database table in the allocated buffer;

communicate a message to one or more destination processing modules, the message comprising at least some of the one or more rows stored in the allocated buffer;

otherwise:

execute a many-rows method to redistribute the one or more rows.

- 19. (original) The computer-readable medium of Claim 18, wherein the transmitting processing module comprises one of a plurality of processing modules associated with a relational database system.
- 20. (original) The computer-readable medium of Claim 18, wherein the message is communicated to each of a plurality of destination processing elements.

- 21. (original) The computer-readable medium of Claim 18, wherein the allocated buffer is capable of storing no more than ten (10) rows.
- 22. (original) The computer-readable medium of Claim 18, wherein the many-rows method comprises:

communicating from one or more transmitting processing modules a first signal to a plurality of processing modules within a relational database system, the first signal operable to initiate a row receiver task on each of the processing modules;

communicating from one or more of the processing modules a ready-to-receive signal to the one or more transmitting processing modules;

communicating from the one or more transmitting processing modules a second signal comprising the one or more rows associated with the database table;

after communication of the last row associated with the database table, communicating from the one or more transmitting processing modules an end-of-data signal to each of the plurality of processing modules.

- 23. (original) The computer-readable medium of Claim 18, further comprising invoking the program on a single transmitting processing module.
- 24. (original) The computer-readable medium of Claim 18, further comprising determining a number of rows to store in the allocated buffer.
  - 25. (previously amended) A relational database management system, comprising:

a memory storing a program accessible to one or more of a plurality of transmitting modules, the program managing a redistribution of one or more rows associated with one or more database tables; and

at least one processor determining the number of transmitting modules on which the program was invoked, the at least one processor executing a few-rows row redistribution method to redistribute the one or more rows if the program was invoked on a single transmitting module, otherwise the at least one processor executing a many-rows row redistribution method to redistribute the one or more rows.

26. (previously presented) A database management system, comprising:

a massively parallel processing system comprising:

one or more nodes;

a plurality of processors, each of the one or more nodes providing access to on $\underline{e}$  or more processors; and

a plurality of virtual processes, each of the one or more processors providing access to one or more virtual processes;

a set of one or more database tables residing on the one or more nodes; and one or more of the plurality of virtual processes that:

allocate a buffer associated with a transmitting processing module, the transmitting processing module having access to a program, the program capable of managing a redistribution of one or more rows associated with one or more database tables;

if the allocated buffer is larger than the one or more rows:

store one or more rows associated with a database table in the allocated buffer;

communicate a message to one or more destination processing modules, the message comprising at least some of the one or more rows stored in the allocated buffer;

otherwise:

execute a many-rows method to redistribute the one or more rows.